

Please add new Claims 14-16.

1     --14. The method of Claim 11, wherein said design variables include  
2       ones from the group of journal angle, cone-profile angle, offset  
3       angle, tooth crest length, radial position of the center of the crest  
4       length, and the tooth angles.

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1     --15. The method of Claim 11, wherein said objective functions are  
2       defined by

3       Obj =  $(V_1 - V_m)^2 + (V_2 - V_m)^2 + (V_3 - V_m)^2$   
4       where  $V_m = (V_1 + V_2 + V_3)/3$ ,  $V_1$ ,  $V_2$  and  $V_3$  are the  
5       volume removed by cones 1,2 and 3, respectively.

1     --16. The method of Claim 11, wherein a lower bound of a tooth crest  
2       length is determined by the tooth strength. --